Appendix A

Joint Permit Application



Joint Permit Application (JPA)

	Previous USACE Permit or File Number				Land and Water Ma	nagement Division,	, MDEQ File Number	>
Ĕ			pe					AGENCY
AGENCY USE	USACE File Number		Date Received		Pre-application Nun	nber or Marina Ope	rating Permit Numbe	ar S
ΙCΥ			e Re					
ìΕΝ	District Office		Dat	•	Fee received \$			<u></u>
AG								m
Rea	d Instructions pages i - iii. All of the	following boxe	s below must be che	cked and information	n provided for the	application to be	e processed:	
	All items in Sections 1 through 9 are	completed		Date proje	ct was staked			
	Items in Sections 10 through 21 that	apply to the pro	ject are completed	Applicatio	n fee is attached			
	Dimensions, volumes and calculation				ted supplementary			
	Reproducible location map, site plan		ons and photographs	are provided, one s	et must be black a	nd white on 8 1/2	by 11 inch pape	r.
	List any additional attachments, table	es, etc.:						<u> </u>
	ROJECT LOCATION INFORMATION	rtha Taumahin [Danga and Castian inf	ormation and your pro	anarty tay bill for yo	ur Droporty Tay I	dontification Numb	aar(a)
	er to your property's legal description for scation Address (road, if no street addre		Zip Code	Township Name(s)	operty tax bill for yo	Township(s		Section(s)
One Le	roadion / hadress (road, ii no street addre	.55)	Zip oode	rownship rtaine(s)		10Wiship(s	, runge(s)	30011011(3)
City/Vi	llage Co	unty(ies)		Property Tax Identif	ication Number(s)			
Name	of Dro	oject Name or		Subdivision/Plat	1,	ot Number	Private	
Waterk		o Number		Subulvision/Flat	L	n number	Claim	
Project	types private	public/gove	ernment	industrial		commercial	multi-	
(check	all that apply) building addition project is receiving	new buildir	ng or structure	building renovation of other (explain)	or restoration	river restoration	single	:-family
The pr	oposed project is on, within, or involves			gally established Cour	nty Drain (date esta	hlished) (M/D/Y)		
as				reat Lake or Section 1	•		a marina	
ar		•	a de	esignated high risk ero	sion area 🔲 a	dam	a structure rem	oval
\square a d	itch or drain an inland lake	e (5 acres or mor	e) 🔲 a de	esignated critical dune	area 🔲 a	wetland	a utility crossing	g
	oodway area 🔲 a 100-year flo			esignated environment			an existing water b	
	SCRIBE PROPOSED PROJECT AND				SEQUENCE AND N	IETHODS (attacl	h additional shee	ts)
written	Summary of All Proposed Activities							
Constr	uction Sequence and Methods							
CONST	action Sequence and Wethous							
3 AF	PPLICANT, AGENT/CONTRACTOR, A	ND PROPERTY	OWNER(s) INFORMA	ATION				
_	/a !!							
	/Applicant lual or corporate name)			Agent/Contractor (firm name and cont	tact nerson)			
(IIIGIVIC	dar or corporate name)			(IIIII Hame and com	idei personj			
Mailing	Address			Address				
City	State	e Zip Code		City		State	Zip Code	
	e Phone Number with Area Code	Cell Phone	Number	Daytime Phone Nur	mber with Area Cod		Cell Phone Number	er
,				,				
Fax	E-	-mail		Fax		E-mail		
AUTH	ORIZATIONS							
☐ No	Yes Is the applicant the sole owr							
	o, attach letter(s) of authorization from a							
	f easements or right-of-ways must be parts. If the applicant is a corporation, a co							telepnone
	of authorization must be provided from							
	ty Owner's Name			Daytime Phone Nur			e Number	
	rent from applicant)			Dayume Phone Nul	iibei Willi Alea COU	c Cell PillOl	ie muninel	
	Address			City		State	Zip Code	
					h		to the control of	-2
	Yes Is there a MDEQ conservation es, attach a copy.	on easement or c	oiner easement, deed i	estriction, lease, or ot	ner encumbrance u	pon the property	in the project area	17

Purpose/Intended Use: The refurbishment	ne purpose must include a t of the Humboldt Mi	USE, AND ALTERNATIVE ny new development or exp Il and recommissioning	ansion of an existing of the Humbo	g land use.			lacement.
The refurbishmen	t does not include exp	ansion. See Section 2	.4 for details.				
construction technologies:	alternative project layout a	nsidered to avoid or minimi nd design; and alternative k s were considered for t	ocations. For utility	crossings,	include both alterna	itive routes and alt	to, alternative ernative construction.
LOCATING YOUR PR	ON IECT SITE						
Attach a copy of a map	that clearly shows the site	location and road from the i	nearest major inters	ection, and	includes a north ar	row. Figures	1-1 and 1-2
s there an access road to	the project? No Y	es (If Yes, type of road, che	ck all that apply) 🔽	private	✓ public	improved improved	unimproved unimproved
Name of roads at closest n	nain intersection North	end: US 41 and FX, pu	iblic/private	and			vy 95, public/private
Directions from main inters	ection From Hwy 4	1 and 95, travel south	0.7 miles on Hy	vy 95 to C	CR 601. Turn ea	ast, travel 0.8 m	niles to mill entrance
Style of house or other buil	lding on site 🔲 ranch 🗀	2-story cape cod se and/or buildings	bi-level cottage	/cabin []	pole barn 🔲 none	other (descri	
Fire lane number	I of number	Address is visible on [house □ garad	ie 🗀 maili	pox sign 7 ot	her (describe) S	ee Figure 1-2
How can your site be ident Provide directions to the a	ified if there is no visible a ctivity site, with distances t	ddress? <u>KEMC will per</u> rom the best and nearest vi	ost entrance sig sible landmark and	n waterbody.			
Turn east on CR of Does the project cross the ✓ No Yes # If Yes	boundaries of two or more	to mill entrance. HTE political jurisdictions? (City	Township, Townsh	ip/Townshi	p, County/County, e	etc.)	
List all other federal, in	nterstate, state, or local ag	ency authorizations require	d for the proposed	activity, incl	uding all approvals	or denials received	d.
Agency MCCD	Type of approval Part 91	Identification number	Date applied Nov. 2008		roved / denied	If denied, reason	
MDEO	Part 21/Part	632	Nov. 2008				
See Sections 1.4	of this application						· · · · · · · · · · · · · · · · · · ·
COMPLIANCE	(1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	DAV Tune 2000			Proposed complet	tion date (M/D/Y)	2019
If a permit is issued, date Has any construction active If Yes, identify the porti	rity commenced or been co	ompleted in a regulated area ted on a separate set of dra	a? ✓ No Yes		Were the regulate	d activities conduc	ted under a MDEQ
attach project specification	ns and give completion dat	e(s) (M/D/Y)			If Yes, list the MD	EQ permit number	Not applicable
Are you aware of any unre	esolved violations of enviro	nmental law or litigation inve	olving the property?	No [Yes (If Yes, expla	in below.)	
			•				
 Complete information for 	or all adjacent and all impa	RS (Attach additional sheet cted property owners and th	ne lake association	or establish	ed lake board, inclu	iding the contact p	erson's name.
 If you own the adjacent 	lot, provide the requested	information for the first adja	icent parcel that is i	not owned b	oy you. City	State	Zip Code
Property Owner's Name See Section 2.8 of t	hic application	Mailing Address			Oity	Otato	Lip Codo
See Section 2.8 of 1	inis application						:
			WINE				
Name of Established I	ake Board or Lake As	sociation					
and the Contact Person's		mailing address <u>NA</u>					
APPLICANT'S CERT	TFICATION	READ CAREF	ULLY BEFORE SI	GNING			that it is two sand
accurate; and, to the best	of my knowledge, that it is	es described herein. I certify in compliance with the Stat at to this application may be By signing this application,	ie Coastal Zone Ma revoked if informat	nagement l ion on this a	Program. I understa application is untrue	and that there are . I certify that I ha	penalties for submitting ve the authority to
enter upon said property i	n order to inspect the prop	osed activity site and the co s by local, county, state, or f	ompleted project. I federal agencies do	understand es not relea	that I must obtain a ase me from the req	ui otner necessary uirements of obtai	ning the permit
requested herein before o Property Owner Agent/Contractor	Printed N	understand that the paymer lame an C. Cherry	nt of the application Signa	ure	or guarantee the ISS	пансе от а рениц	Date (M/D/Y)
☐ Agent/Contractor	1	cott Eagle Minerals Co). <i>[]</i>	11/	-/_(/	\ /	12-15-08

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US Army Corps of Engineers (USACE)

10 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED ON AN I	NLAND, LAKE OR STREAM OR A GREAT LAKE							
Check boxes A through M that may be applicable to your project and provide all the requested information.								
• If your project may affect wetlands, also complete Section 12. If your project may impact regulated floodplains, also complete Section 13.								
• To calculate volume in cubic yards (cu yd), multiply the average length in feet (ft) times the average width (ft) times the average depth (ft) and divide by 27.								
 Some projects on the Great Lakes require an application for conveyance prior to Joint Permit Application completeness. Provide a cross section and overall site plan showing existing lakes, streams, wetlands, and other water features; existing structures; and the location of all proposed 								
structures, land change activities and soil erosion and sedimentation control measures. Review Appendix B and EZ Guides to prepare site-specific drawings.								
⇒ Provide tables for multiple impact areas or multiple activities and provide fill and excava								
Water Level Elevation	allorina ougo outourations.							
On a Great Lake use IGLD 85 surveyed converted from observed still water	elevation. On inland waters, NGVD 29 NAVD 88 other							
Observed water elevation (ft) date of observation (M/D/Y)								
A. PROJECTS REQUIRING FILL (See All Sample Drawings)								
→ Attach both overall site plan and cross-section views to scale showing maximum a (Check all that apply) ☐ floodplain fill ☐ wetland fill ☐ riprap								
(Check all that apply) ☐ floodplain fill ☐ wetland fill ☐ riprap ☐ boat launch ☐ off-shore swim area ☐ beach sanding ☐ boatw								
Fill dimensions (ft)	Total fill volume (cu yd) Maximum water							
length width maximum depth	depth in fill area (ft)							
Type of clean fill pea stone sand gravel wood chips	Will filter fabric be used under proposed fill?							
other	No Yes (If Yes, type)							
Source of clean fill ☐ on-site → If on-site, show location on site plan ☐ comm	nercial other other, attach description of location							
Fill will extend feet into the water from the shoreline and upland	feet out of the water. Fill volume below OHWM (cu yd)							
B. PROJECTS REQUIRING DREDGING OR EXCAVATION (For dredging projects s								
Attach both plan and cross-section views to scale showing maximum and average								
(Check all that apply)	xcavation or draining seawall, bulkhead, or revetment other							
	Dredge/excavation volume below Method and equipment for dredging							
	OHWM (cu yd)							
Has proposed dredge material been tested for contaminants?	Dredged or excavated spoils will be placed on-site off-site							
□ No □ Yes	Provide detailed disposal area site plan and location map.							
→ If Yes, provide Test Results with a map of sampling locations	Provide Letter of authorization from owner, if disposing of spoils off site.							
Has this same area previously been dredged? No Yes If Yes, date and permit number:								
If Yes, are you proposing to enlarge the previously dredged area? No Yes								
Is long-term maintenance dredging planned? No Yes If Yes, when and how								
C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8, 12, 14, 17, 22,								
	nsions (ft) length width depth Volume(cu yd)							
Riprap landward of the shoreline OR ordinary high water mark	nsions (ft) length width depth Volume(cu yd)							
Type of riprap field stone angular rock other	Will filter fabric be used under proposed riprap? ☐ No ☐ Yes ☐ Yes, type							
, , , , , , , , , , , , , , , , , , ,	plete Sections 10 A, B and/or C above, as applicable							
(check all that apply)	Distances of project							
riprap/revetment – length (ft) seawall/bulkhead – length (ft)	other – length (ft) from both property lines (ft)							
E. DOCK - PIER - MOORING PILINGS - ROOFS (See Sample Drawing 10)								
Dock Type ☐ open pile ☐ filled ☐ crib	Permanent Roof No Yes Mounted on							
Seasonal support structure? No Yes	Maximum Dimensions: length width height							
Proposed structure dimensions (ft) length width	Dimensions of nearest adjacent structures (ft) length width							
F. BOAT WELL (See EZ Guides)								
Type of sidewall stabilization wood steel concrete vinyl riprag	p other							
Boat well dimensions (ft)	Number of boats							
Length width depth								
Volume of backfill behind sidewall stabilization (cu yd)	Distances of boat well from adjacent property lines (ft)							
G. BOAT LAUNCH (See EZ Guide) (check all that apply) new existing	public private commercial replacement							
Proposed overall boat launch dimensions (ft)	Type of material concrete wood stone other							
length width depth	Type of material concrete wood stone other							
Existing overall boat launch dimensions (ft)	Boat launch dimensions (ft) below ordinary high water mark							
Length width depth	Length width depth							
Length width depth Distances of launch	Length width depth Number of adjacent Skid pier							
Length width depth	Length width depth							
Length width depth Distances of launch from both property lines (ft) H. BOAT HOIST (See EZ Guide)	Length width depth Number of adjacent Skid pier Skid piers dimensions (ft) length width							
Length width depth Distances of launch from both property lines (ft) H. BOAT HOIST (See EZ Guide) (Check all that apply) seasonal permanent cradle side lifter	Length width depth Number of adjacent Skid pier							

10 Continued - PROJECTS IMPACT				INLAND LAKE OI	R STREAM O	R A GREA	AT LAKE
J. INTAKE PIPES (See Sample Drawin							
• •	pipe	If outlet pipe, dischar					
other		stream, drain, or	river Gre	eat Lake other		Din o dia	
Dimensions of headwall OR end section (ft) length	vidth	depth		Number of pipes		elevatio	ameters and invert
K. MOORING AND NAVIGATION BUG						Cicvatio	113
 → Provide an overall site plan showing t → Provide cross-section drawing(s) sho 	he distances between ea	ach buoy, distances fro	m the shore to	each buoy, and dep	oth of water at	each buoy	y in feet.
Number of buoys Boat Lengths		nchor system		Purpose of buoy	mooring	j 🗌 navi	igation 🔲 swimming
Dimensions of buoys (ft) Width height swing radiu	s chain length	→ Atta	ch Authorization	rty along the shore n Letter from the pr			oove.
L. FENCES IN WETLANDS, STREAM							
→ Provide an overall site plan showing						C C	
→ Provide drawing of fence profile show	ving the design, dimensi	on, post spacing, board ength (ft) of fence throu	a spacing, and d		height (ft)		
(check all that apply) ☐ wetlands ☐ streams ☐ floodplain		-	floodplains		neight (it)	Fence ty	ype and material
M. OTHER - e.g., structure removal or of					ds or floodpla	ins.	
Structure Description:	onstruction, broakwater	, adrator, non onditor, a	Dimen		as or nooupla	11101	
11 EXPANSION OF AN EXISTING OR C	CONSTRUCTION OF A N	NEW LAKE OR POND					
Which best describes your proposed wate			(000 00р.0 2	.ago .aa .o,			
wildlife stormwater basin	recreation was	stewater basin	ier				
Water source for lake/pond							
groundwater natural springs	Inland Lake or Stream				other		
Location of the lake/basin/pond	floodplain	wetland	uplan uplan	d			
Maximum dimensions (ft):		ls will be placed 🔲 on					
length width depth		Provide a Detailed Disp				and dispos	sal dimensions.
Maximum Area:		Provide a Letter of Auth Provide elevations and				omploto co	oction 10 I
acres sq ft	I					umpiete se	ection 100
Will project involve construction of a dam, ACTIVITIES THAT MAY IMPACT WE						cavation a	s annlicable)
For information on the MDEQ's Wetland						cavalion a	з арріісавіс)
Complete the wetland dredge and wetlanger						e impact ar	reas or activities
Label the impacted wetland areas on a							
If dredge/excavation material will be dis							
(check all that apply) fill (Section 10A) bridges and culverts (Section 14)	draining surface was		stormwater dis		dewater restorati		fences (Section 10L) other
Wetland dredge/excavation dimensions	maximum length (ft)	maximum width (ft)			average de		dredge volume (cu yd)
Treatand areage, encaration amornoisme	mazimani rengin (iy		acres		arorago ac	Spui (19	areage retains (ou ju)
Wetland fill dimensions	maximum length (ft)	maximum width (ft)	Fill area acres		average de	epth (ft)	fill volume (cu yd)
Total wetland dredge/excavation area ☐ acres ☐ sq ft	Total wetland dredge/ (cu yd)			sq ft	Total wetlan		. , .
The proposed project will be serviced by: public sewer private septic system		ns to the County H		tion for a permit bent? No	/es	No 🗌	1.7
Has a professional wetland delineation bec → Provide a copy of the delineation.		cel? No Y data sheets.	es		Applicant pui		operty ter October 1, 1980.
Is there a recorded MDEQ easement on the	e property? 🔲 No 🔲	Yes If Yes,	provide the eas	sement number			
Has the MDEQ conducted a wetland asse				copy of assessmer	nt or WIP num	ber:	
Describe the wetland impacts, the propose	ed use or development, a	ind any alternatives cor	nsidered.				
							
Does the project impact more than 1/3 acre If yes, submit a Mitigation Plan that inclu		Yes	d For more inf	ormation on mitiga	tion ao to www	w michigan	a apyldogwotlands
Describe how impacts to waters of the Uni			u. I UI IIIUI E IIII	ormation on mittya	uon go to <u>www</u>	w.michiyali	<u>пуомисционаниз</u>
'							
Describe how impact to waters of the Unite	d States will be compen	sated. OR Explain wh	y compensatory	mitigation should	not be require	d for the p	roposed impacts.
Is any grading or mechanized land clearing → Show locations on submitted site plan.	proposed? No No		proposed gradi ed locations on s		land clearing b	oeen comp	oleted? No Yes



 FLOODPLAIN ACTIVITIES (See Sample D Complete Sections 10 A and 10 B and other 	Sections, as appl	licable.		-		<u>dplainmanageme</u>	<u>ent</u>	
 A hydraulic analysis or hydrologic analysis m Attach additional sheets or tables with the red 								
(check all that apply) if ill excavation	•	on whom main		otivitos dio molados				
Site is feet above ordin	ary high water ma	ark (OHWM) C	R observe	d water level. Date o	of observation (M/E)/Y)		
Fill volume below the 100-year	·	, , ,		Compensating cu	it volume below the	9		
floodplain elevation (cu yd) 14 BRIDGES AND CULVERTS (Including Foo	t and Cart Dridge	a) (Caa Cama	la Drawinga F		nin elevation (cu yd)		
 Provide detailed site-specific drawings of exist 						(Sample Drawing	14B) Stre	am and
Floodplain Cross-Section (Sample Drawing 1								
Provide the requested information that applie								
 If you choose to have a Licensed Professional including the 100-year flood discharge, then 								
report supporting this certification may also b	e required. Is Ce	ertification Lang	guage attached	I? ☐ No ☐ Yes	.,,,,,	iroy orriany or rina.		
→Attach additional sheets and table with the red	quested informati		_	lude hydraulic calcul	ations.			
		Existing	Proposed	D.1 // II		\	Existing	Proposed
Culvert type (box, circular, arch) and material (corrugated metal, timber, concrete, etc.)				Bridge span (length OR culvert width				
Bridge type (concrete box beam, timber,				Bridge width (paralle		or (ity		
concrete I-beam, etc.)				OR culvert length (f		roombod) OD		
Entrance design (projecting, mitered, wingwalls, etc.)				Bridge rise (from bo Culvert rise (fill fron				
Total structure waterway opening above streambed (sq ft)				Approach slope fill fi culvert or bridge				
elevation of culvert crown	Upstream			Higher elevation of	culvert invert	Upstream		
bottom of bridge beam (ft)	Downstream		C	OR streambed with	thin culvert (ft)	Downstream		
Elevation of road grade at structure (ft)				Distance from low potential to mid-point of bridge				
Elevation of low point in road (ft)					V V			
Cross-sectional area of primary channel (sq ft) (See Sample Drawing 14C)				am width at OHWM Ifluence of the structu	ure (ft)	Upstrea Downstr	n eam	
Reference datum used (show on plans with des	cription) NO	GVD 29				other		
High water elevation – describe reference point				·				
STREAM, RIVER, OR DRAIN CONSTRUC		, ,	U	,				
 Complete Section 10A for fill, Section 10B for If side casting or other proposed activities will 					pectively.			
→ Provide an overall site plan showing existing I						n of all proposed	structures	and land
change activities. → Provide cross-section (elevation) drawings ne	ecceany to cloarly	ı chaw avictine	a and proposed	Londitions Do suro	to indicate drawing	a cealoc		
→ Frovide cross-section (elevation) drawings he → For activities on legally established county drawings he						y scales.		
(check all that apply)	improvement	relocation	enclosu	re new drain	wetlands	other		
5. (6)								
Dimensions (ft) of existing stream/drain channel Dimensions (ft) of new, relocated, or enclosed s			wi	dtn de	pth Volume of dredg	1e/		
length width	depth	IIIOI			excavation (cu y	ds)		
Existing channel average water depth in a norm	al year (ft)			Proposed side	slopes (vertical / h	orizontal)		
How will slopes and bottom be stabilized?								
						1,77	cu /	,
Will old/enclosed stream channel be backfilled t		de? No		Length of channe to be abandoned		Volume of	fill (cu yds	5)
If an enclosed structure is proposed, check type Dimensions of the structure diameter	e concrete	corrugate leng		plastic other volum	e of fill			
Will spoils be disposed of on site? No Y	es → Show	location of sp	oils on site pla	n if spoils disposed o	n an upland area.			
Water elevation Reference daturns Show elevation on plans with description.	m used 🔲 NGV	′D 29 🔲 NA	VD 88 🔲 IGI	.D 85 (Great Lakes C	Coastal Areas)	other		

us	Δrmv	Corns	٥f	Engineers	(USACE)
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Michigan Department of Environmental Quality (MDEQ)

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DRAWDOWN OF AN IMPOUNIIf wetlands will be impacted, also		12.					
Type of drawdown over winter	temporary	one-time ever	nt 🔲 annua	al event 🔲 per	manent (dam rem	oval)	
Reason for drawdown							
Has there been a previous drawdown	n? 🔲 No 🔲 Ye	s (If Yes, provide da	ite (M/D/Y))			Previous MDEQ permit number, if known	
Does waterbody have established leg	gal lake level? [No □ Yes □ N	lot Sure			Dam ID Number, if known	
Extent of vertical	gariano iovon		Impoundr			Number of adjacent or	
drawdown (ft)			design he			impacted property owners	
Date drawdown would start (M/D/Y)			Date drav would sto			Rate of drawdown (ft/day)	
Date refilling would start			Date refill			Rate of refill	
(M/D/Y) would end (M/D/Y) (ft/day)						-	
Type of outlet discharge structure to surface bottom mid-c				nent area at ater level (acres)		Sediment depth behind im discharge structure (ft)	poundment
17 DAM, EMBANKMENT, DIKE, S		ONTROL STRUCTU			Drawing 15)	discharge structure (ii)	
For more information go to www.r				20 (Goo Gampio i	brawing 10)		
 If wetlands will be impacted, also 	complete Section	12.					
→ Attach site-specific conceptual pla							act review.
 Detailed engineering plans are rec Attach detailed engineering plans 						andpoint.	
Which one best describes your proje				n of a failed dam		nt of an existing dam	
dam repair dam alteration	dam al	andonment	dam remova		other		
Dam ID Number	T	ype of outlet dischar				uire a drawdown of the water	
If known Riprap		surface botto bredging/excavation	m <u> </u>	Fill volum		(If Yes, also complete Section oes structure allow complete	
Volume (cu yd)		olume (cu yd)		(cu yd)		rainage of waterbody?	
Benchmark	Datum				Describe benchr	nark and show on plans	
elevation (ft) Have you engaged the services of a	Liconsod Profes		other	f Vos. provido pa	mo rogistration n	umbor, and mailing address:	
Name:		stration Number	M	ailing Address	me, registration no	imber, and mailing address.	
Will a water diversion during constru If Yes, describe how the stream flow			nstruction area	during the propo	sed project activiti	es:	
COMPLETE THE FOLI Describe the type of dam and how y	LOWING FOR A	NEW DAM, RECON	STRUCTION	OF A FAILED DA	M, OR ENLARGE	EMENT OF AN EXISTING D	AM:
Describe the type of dain and now y	ou will design the	uaiii anu embankine	ent to control s	seepage uuougu	anu unuemeaun un	e uaiii.	
Embankment top		vation at downstrear				mbankment top elevation	
elevation (ft)	embankment t					m embankment toe) (ft)	
Embankment length (ft)	Embankment	op wiath (tt)	Embankmen	t bottom width (ft)	Embanianon	slopes Upstream	
Proposed normal		 Impoundment flood	elevation (ft)	Maximum	vertical drawdowr	zontal) Downstream capability (ft) (Attach opera	tional procedure of
pool elevation (ft) Have soil borings been taken at dam	location?	Will a cold water und	arsnill ha nrov		sed structure, if av	allable) ve flowage rights to all propo	sed flooded
No Yes → If yes, attach res		☐ No ☐ Yes If Y				t the design flood elevation?	
18 UTILITY CROSSINGS (See Sar						<u> </u>	
 If side casting is required, completed Attach additional sheets or tables 	te Sections 10A a	nd 10B. If spoils will	be placed in	wetlands or wetla e crossings.	nds may be impac	ted, complete Section 12.	
What method will be used to constru	ct the crossings?		•		Crossing of	Inland Lake or Stream	floodplain
	nch jack and	bore directional	drilling			waters wetlands (also co	
LVDE	Number of wetland crossing	Number of inlan stream crossing	PII	e diameter (in)	Pipe length per crossing (ft)	Distance below streambed or wetland (in)	Trench width (ft)
sanitary sewer	woulded Grossing	5 Sucam crossing	5		Grossing (II)	or wedana (III)	†
storm sewer							1
watermain							
cable							
ail/gas pipolino							



19 MARINA CONSTRUCTION AND OPER	RATING PE	RMIT IN	IFORMATION	(See Sam	ple Drawing 21)			
For more information go to <u>www.michigan.gov/dec</u>								
 Marinas located on the Great Lakes, including Lak bottomlands. If a conveyance is necessary, an ap 								tructures on the
⇒ Enclose a copy on any current pump-out agreement	nt with anothe	r marina f	acility.	JIIIL F CITIIIL A	pplication can be dete	mineu compi	cic.	
→Attach a copy of the property legal description or a				application.				
Marina owner				Marina nar	ne			
Mailing address				Location s	treet address			
City	State	Zip Code	9	City		State	Zip C	ode
Marina owner's daytime telephone number with area	code			Marina's d	laytime telephone nun	nber with area	code	
Check the reasons for submitting this application Owner's name change/transfer Construction of a new marina Issuance of a new Marina Operating Permit				Current M	arina Operating Perm	it Number	Ex	piration Date (M/D/Y
Expansion/modification of an existing marina Renewal of a Marina Operating Permit								
renewal of a Marina Operating Fernile	Existin	g Total	Revised Total			Existing	Total	Revised Total
Number of boat slips/wells (do not include broadside		<u> </u>		Are sanita facilities a	ry pump-out vailable?	□ No □		□ No □ Yes
Linear feet of broadside dockage				Number of	launch ramps/lanes			
Number of mooring buoys				Maximum broadside	number of boats at			
20 HIGH RISK EROSION AND CRITICAL DUNE A		ample Dra	awings 19 and 20	, also Sampl	e Drawing 9 if wetland	ls are impacte	ed)	•
For more information go to www.michigan.gov/dec Construction in critical dura grass on plants great		at wartiaal	rice in a 2 feet b	rizontal plan	o (22 norsent) is noch	المراجع والماليين أوروا المال	ا ماموره	oveentien
 Construction in critical dune areas on slopes great Construction in critical dune areas on slopes that r 								
horizontal plane (33 percent) requires plans prepa						o icss triair a	1-1001 VCI	ilical fisc iii a 5-100t
 All property boundaries and proposed structure co 	rners, septic s	system, wa	ater well, and driv	eway locatio	ns must be staked be			
Scaled overhead and cross-section plans that inclu-						es and terrain	alteration	s must be included.
 Additional information, including the building const Construction in critical dune areas requires inclusi 				te the applicate	ation review.			
permit or letter from county enforcing agent state				rosion and S	edimentation Control)			
2) permit or letter from County Health Department	for work on a	septic sys	stem, and					
3) letter from applicant stating any proposed tree of		emoval co	omplies with instr					
Parcel dimensions (ft) width depth	Property is a platted lot	t 🗆 upr	latted parcel		urrent property laries created	Date	e project s	taked (M/D/Y)
			•		vation other			
The proposed project will be serviced by		,	pplication been r		If Yes, critical dune	nroiects requir	e Num	ber of individual
public sewer private septic system		th Departr	nent for a permit		County Health Depa approval submitted	irtment	living	units in proposed
→ If septic system, show septic system on plans		ermit beer			→ Attach Written As			
Existing construction is on pilings baseme concrete slab crawl space			concrete s	ab	will be on pilings crawl space			
Existing construction material above foundation wall log block other	stud fram	ie 	log 🔲	olock	material above found other		stud frai	me
Existing siding material wood vinyl other	block		Proposed new other	siding mater	ial 🗌 wood 🔲 vii	nyl 🔲 bl	ock	
Area of the existing foundation, excluding attached g	arage (sg ft)			posed found	ation, excluding attach	ned garage (so	g ft)	
Area of the existing garage foundation (sq ft)					e foundation (sq ft)	3 3. (.	1 7	
If renovating or restoring existing	Current stru	cture			of existing structure	Assess	ment Yea	r
structure, renovation or restoration cost	replacement	t value	excludir	ng land value)			
\$	\$		\$					
ACTIVITIES IN DESIGNATED ENVIRONMENT. Many designated environmental areas are comple	tely or partially	y in wetlar	nds. Be sure to c		tion 12 if your propose	ed activities wi	ll also occ	cur in wetlands.
Attach a detailed site plan for any alteration in a de	signated envir							
(Check all that apply) placement of structures		grac	ding or other soil	alteration	al	teration of nat	ural drain	age